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| 10/520,511 01/07/2005 Ralph Zahn  20529 7590 06/29/2007  NATH & ASSOCIATES 112 South West Street Alexandria, VA 22314 | 26476U 5472<br>EXAMINER |
|---|-------------------------|
| NATH & ASSOCIATES 112 South West Street   | EXAMINER                |
| 112 South West Street   |                         |
|   | GUCKER, STEPHEN         |
| Thorning TI 22317   | ART UNIT PAPER NUMBER   |
|   | 1649                    |
|   |                         |
| •   | MAIL DATE DELIVERY MODI |
|   | 06/29/2007 PAPER        |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| ·  | Application No.   | Applicant(s)   |  |
|--|---|--|--|
|  | 10/520,511  | ZAHN, RALPH  |  |
| Office Action Summary  | Examiner  | Art Unit   |  |
| Ste  | Stephen Gucker  | 1649   |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply  |   |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). |  |
| Status   |   |  |  |
| 1) Responsive to communication(s) filed on  2a) This action is <b>FINAL</b> . 2b) This  3) Since this application is in condition for alloward closed in accordance with the practice under E  | action is non-final.<br>ace except for formal matters, pro  |  |  |
| Disposition of Claims  |   |  |  |
| 4) Claim(s) 1-24 is/are pending in the application.  4a) Of the above claim(s) is/are withdray  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-24 are subject to restriction and/or expelication Papers   | vn from consideration.  |  |  |
| · · · · <u>- ·</u>   | _   |  |  |
| 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the office of the original transformation is objected to by the Examiner.  | epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj   | e 37 CFR 1.85(a).<br>ected to. See 37 CFR 1.121(d).                        |  |
| Priority under 35 U.S.C. § 119   |   |  |  |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of   | s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).  | on No ed in this National Stage  |  |
| Attachment(s)  1)   Notice of References Cited (PTO-892)   | 4) 🔲 Interview Summary  | (PTO.413)  |  |
| Notice of References Cited (PTO-692)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date   | Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:   | ite  |  |

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## **DETAILED ACTION**

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-7 and 23-24, drawn to a mutant of a protein or a variant comprising an additional disulfide bond, classified in class 530, subclass 350+, for example.

Group II, claim(s) 8-9, drawn to a nucleic acid encoding a mutant of a protein or a variant comprising an additional disulfide bond, classified in class 536, subclass 23.5+, for example.

Group III, claim(s) 10-16, 18, and 20, drawn to a method of therapy using a mutant of a protein or a variant comprising an additional disulfide bond, classified in class 514, subclass 12+, for example.

Group IV, claim(s) 17 and 19, drawn to a method of therapy using a nucleic acid encoding a mutant of a protein or a variant comprising an additional disulfide bond, classified in class 536, subclass 44+, for example.

Group V, claim 21, drawn to a method of screening assays or TSE-tests applied to animals and humans, classified in class 435, subclass 7.1+, for example.

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Group VI, claim 22, drawn to gene therapy or transgenic animals or uses of such, classified in class 800, subclass 3+, for example.

- 2. The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the shared technical feature uniting the groups is a mutant of a protein or a variant of which that comprises at least one additional engineered disulfide bond which inhibits a conformational transition. However, Lu et al. (*Biochemistry*, Vol. 39, pages 13575-13583, 2000) discloses recombinant human doppel protein which appears to meet all the limitations of the technical feature (for example, see dependent claim 4). Therefore, the shared technical feature is not a special technical feature by definition since it is not novel and is not a contribution over the prior art. Therefore, Groups I-VI do not relate to a single general inventive concept and therefore lack unity of invention.
- 3. Because these inventions are distinct for the reasons given above, and because the search and examination of these groups are different because they involve separate searches in both the patent and non-patent literature, restriction for examination purposes as indicated is proper because the search and examination of these groups is different and would pose an undue burden to the examiner.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1. 1741).

5. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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6. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technical Center 1600 general number which is (571) 272-1600.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gucker whose telephone number is (571) 272-0883. The examiner can normally be reached on Monday to Friday from 0930 to 1800. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan, can be reached at (571) 272-0841. The fax phone number for this Group is currently (571) 273-8300.

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Stephen Gucker

June 21, 2007

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600